



## Thick Film Chip Dividers, High Voltage



## **KEY BENEFITS**

- High-voltage capability to 3000 Volts
- Small physical size (2512 case size)
- Outstanding ratio stability: < 0.3 % at 70 °C at 2000 hours, full power
- Standard and custom ratio values covering multiple ratio dividers: 10:1 to 500:1

## **APPLICATIONS**

- High-voltage power supplies
- Inverters
- Regulators
- High-voltage control circuits

### **RESOURCES**

- Datasheet: CDHV <a href="http://www.vishay.com/doc?68020">http://www.vishay.com/doc?68020</a>

One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components



HALOGEN

FREE





# Thick Film Chip Dividers, High Voltage





#### **FEATURES**

- High voltage up to 3000 V
- Typical resistance ratios of 250:1, 500:1, etc.
- Flow solderable
- Tape and reel packaging available
- Available with either wraparound terminations or as a single termination flip chip
- Suitable for solderable, epoxy bondable, or wire bondable applications
- Termination: Gold, palladium silver, platinum gold, platinum silver, platinum palladium gold or solder-coated nickel barrier available
- Multiple styles, termination materials and configurations, allow wide design flexibility
- Non-magnetic terminations available
- Compliant to RoHS Directive 2011/65/EU
- Halogen-free according to IEC 61249-2-21 definition

#### Note

\* Pb containing terminations are not RoHS compliant, exemptions may apply

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	CASE SIZE	POWER RATING  P <sub>70 °C</sub> W	MAXIMUM WORKING VOLTAGE <sup>(1)</sup> V	RESISTANCE RANGE <sup>(2)</sup> Ω	TOLERANCE (3) ± %	TEMPERATURE COEFFICIENT <sup>(4)</sup> (- 55 °C to + 150 °C) ± ppm/°C	TCR TRACKING ± ppm/°C	
CDHV 2512	2512	Contact factory	3000	20M to 20G	1, 2, 5, 10, 20	100	50 (typical)	

### Votes

- Continuous working voltage shall be  $\sqrt{P \times R}$  or maximum working voltage, whichever is less.
- Resistance values are calibrated at 100 V<sub>DC</sub>. Calibration at other voltages available upon request. Contact factory for lower values.
- (3) Contact factory for tighter tolerances.
- (4) Reference only: Not for all values specified. Consult factory for your value.

VOLTAGE AND TEMPERATURE COEFFICIENTS OF RESISTANCE CHART TYPICAL							
RESISTANCE (Ω)	RATIO (TYPICAL)	VCR (ppm/V)	TCR (ppm/°C) - 55 °C to + 150 °C				
20M	250:1	10	100				
150M	300:1	10	150				
800M	500:1	10	200				

### Note

23-Nov-1

Revision

· Contact factory for other ratios.

